



OWNER'S MANUAL

RF100 *Artemis*

.22 LR RIMFIRE



ON BEING A PROUD OWNER OF PRECIHOLE ARMS RIFLE

Please Register your Rifle Online at www.preciholearms.com

RF100 *Artemis*

.22 LR RIMFIRE



MADE IN INDIA

Specifications	0.22 LR Rimfire Sporting Rifle
Calibre	0.22 Bolt Action
Magazine	8 Shot Box Magazine
Mounting Grooves	3/8" / 11mm Dovetail
Trigger	Precision Adjustable Two Stage
Bolt	Short Body With 65° Lift
Firing Pin Cocking Indicator	Yes
Butt	Classic Butt Synthetic / Wood
Barrel Specs	6 Groove 1:16" Twist
Barrel Length	520mm
Muzzle Diameter	Dia 16mm
Chamber	Precihole's Special Chamber
Extractor	Dual Extractors
Safety	2 Position Sear Blocking Safety

THIS MANUAL CONTAINS

1. SAFETY INSTRUCTIONS ----- 3pg
2. THE RIFLE DESCRIPTION AND TERMINOLOGY ----- 4pg
3. OPERATING ----- 4pg
4. MAINTENANCE INSTRUCTIONS ----- 6pg
5. TROUBLE SHOOTING ----- 8pg
6. LIST OF ILLUSTRATIONS ----- 9pg
7. WARRANTY INFO ----- 11pg

*All Intellectual Property rights in the Design belong to Precihole Arms Pvt. Ltd.

SAFETY INSTRUCTIONS

- Always Store the firearm unloaded with the striking mechanism released.
- Prior to loading the firearm ensure the barrel, chamber and action are clean and clear of obstructions. If the firearm becomes excessively dirty during firing clean it immediately. Always clean the firearm after use.
- Do not shoot the firearm, unless you are certain about the ammunition you are using. Do not shoot unmarked or hand-loaded ammunition from an unknown source, ammunition with the cracked, deformed or dented case or with a damaged bullet. Reloading is an expert activity and incorrectly reloaded ammunition may be extremely dangerous. It may result in heavy damage or destruction of the firearm and serious injury or death of the shooter or other persons. Always use clean and dry original high quality commercially manufactured ammunition, which corresponds to the caliber of the firearm.
- Always keep the safety ON when the firearm is loaded with a cartridge in the chamber, until you are ready to fire. Keep the firearm pointed in a safe direction when disengaging the safety.
- Ensure that there is nobody interfering in the way of the ejected cartridge.
- Failure in fire: In case it fails to fire, hold the firearm keeping it pointed in a safe direction and wait 30 seconds. If a hangfire (slow ignition) has occurred, the cartridge will fire within 30 seconds. If the cartridge does not fire, eject the cartridge and examine it. If the firing pin indent on the cartridge is light, or non-existent, have the firearm examined by a competent gunsmith.
- Always make sure your firearm is not loaded before cleaning, storing or travelling. Remove any unused ammunition from the firearm and store it in compliance with the law.
- Always be aware that corrosion, use of damaged ammunition, dropping the firearm on hard surface or other “rough treatment” can cause damage that is not necessarily obvious at first sight. If something like this happens, have the firearm examined and tested by a competent gunsmith.

THE RIFLE DESCRIPTION AND TERMINOLOGY

The RF 100 Artemis is a bolt-action rimfire rifle intended for sporting purposes, with the possibility to adjust the pull of the trigger. The manual safety prevents the gun from firing. Dovetail grooves for a scope mount are provided on the receiver. The characteristic features of all the versions include the following:

- Modular system allowing barrel replacement
- Handle rotation 65° for faster reloading
- New adjustable trigger mechanism
- Positive safety
- Cocking indicator (indicator of cocking of the striking mechanism)
- Pulling the bolt out using a dedicated bolt release
- Ergonomic stock

OPERATING INSTRUCTIONS

The manufacturer of the firearm does not recommend excessive dry firing (firing without ammunition). It is advisable to use snap caps for dry training as they are intended for this purpose.

Removing the Magazine

Press the magazine catch located at the front of the trigger guard, in forward direction (Fig. 2), and remove the magazine from the firearm.

Loading the Magazine

With the open end uppermost, grasp the magazine in one hand. Place a cartridge on the magazine follower with the base just forward of the retaining lips. Press the cartridge down back until it touches the rear edge of the magazine. Place the next cartridge on top of the previous cartridge and slide in as previously described.

OPERATING INSTRUCTIONS

Loading of the Rifle

ALWAYS MAKE SURE THE RIFLE IS POINTED IN A SAFE DIRECTION WHEN LOADING!

Insert a loaded magazine into the rifle until it is physically secured by the magazine catch. Grip the rifle with the left hand by its fore-end place the butt plate against your body and Lift the bolt handle up and pull it to the rear until it stops (Fig.3.). Then push the bolt to its forward position again and by rotating the bolt handle in a downward direction close the bolt action. This procedure inserts the cartridge into the chamber and cocks the striker mechanism. The rifle is now ready to fire. If you do not intend to fire immediately ensure the firearm safety is applied as described further in the section safety and its operation.

Unloading of the Rifle

ALWAYS MAKE SURE THE RIFLE IS POINTED IN A SAFE DIRECTION

- Remove the magazine in the manner already described
- Open the bolt and check to ensure that the cartridge has been extracted from the chamber and ejected
- Close the bolt
- Depress the trigger (dry fire)

Note: The manufacturer does not recommend frequent dry firing of the gun. So -called “dry-fire training” should be carried out with a discharge cartridge that are designed for this purpose.

The Safety and its operation

Shift the safety backward to its “Safety -ON” position (Fig.4). This procedure locks the trigger mechanism, and so, it is not possible to discharge a cartridge.

Cocking Indicator Operation

Cocking of the striking mechanism is signalled by a cocking indicator. When the striker is cocked (activated), its rear part protrudes over the plug (Fig.5). This protrusion can be checked both by sight and by touch.

OPERATING INSTRUCTIONS

Trigger Adjustment

The trigger mechanism enables increasing or decreasing the weight of trigger pull (trigger pull is set by the manufacturer in a safe range) The adjustment of trigger pull weight (Fig.6) is carried out after removal of the stock by means of the setting screw situated in front of the trigger (Fig. 6)

Sight Adjustment

Elevation is adjusted by loosening the 2 screws as shown in (Fig. 7a) and moving the elevation element up and down as desired and locking the screw back in place. Moving the element up will elevate point of impact and moving the element down will move point of impact downwards.

Windage is adjusted by loosening the indicated screw and moving (Fig. 7b) the sighting piece left or right as desired and then locking the screw back in place. Moving the sighting piece to the left moves the point of impact to the left, moving the sighting piece to the right moves the point of impact to the right.

MAINTENANCE INSTRUCTIONS

Stripping for Cleaning- Disassembly

- Remove the magazine
- Shift the safety to its “OFF” position.
- Open the bolt, and depress bolt release (Fig. 8) and pull the bolt out of the gun.

No further disassembly is needed for routine maintenance. When a great number of cartridges has been fired it is advisable to hand the gun to a competent gunsmith for cleaning of the bolt.

CAUTION:

Do not strip your firearm any further. If you assume that your firearm requires adjustment or repair, entrust this work to a competent gunsmith in a specialized workshop!

MAINTENANCE INSTRUCTIONS

Cleaning The Rifle

Clean the Rifle

- Each time you use it
- If you get your rifle wet
- As soon as possible after shooting
- At least once a year in a temperate climate
- As often as once a month in a tropical climate, or other demanding environments

Cleaning the Barrel and the Cartridge Chamber

If the firearm has not been fired or if only a few Cartridges have been fired clean the barrel and Cartridge chamber with a clean patch attached to the cleaning rod or pull through. Repeat the cleaning, changing patches, until the last patch comes out clean. When the barrel is very dirty, apply a gun cleaning solution using cleaning brush. Let the solvent act for about 10 minutes (this time may vary depending on the solvent agent used). then thoroughly scrub out the barrel. Subsequently, dry the barrel and Cartridge chamber with a clean patch and check that all powder residues, or fouling have been removed. If necessary repeat this procedure, the cleaning rod and the brush must be inserted into the barrel from the chamber, to prevent wear or damage to the muzzle. Pass the brush all the way through the barrel before reversing the movement. If you try to change directions with the brush, the brush could stick.

Cleaning of Other Parts

Other parts of the rifle can be cleaned with a dry cloth, old toothbrush, copper bristle brush or a wooden scraper. Preserving oil can be used for proper cleaning. Never use the agent designed for barrel bore cleaning! These solutions could remain in the joints, and after some time could cause corrosion. Check that cloth particles or brush bristles have not become lodged in any part of the rifle. The maintenance of the stock can be carried out with a dry cloth or by some furniture-polishing product.

Preservation of Rifle

when the barrel, chamber and all accessible parts are clean and dry, wipe these parts with a cloth soaked in gun oil or apply an oil in spray form. Remove all excess oil. Before shooting always pull through the barrel with dry patch. Use thick preserving agent such as preserving grease only for long-term storage climatic environment, and remove it thoroughly before use from all parts of the firearm.

TROUBLE SHOOTING

If your firearm is properly used and maintained, malfunctions will rarely occur. However, if such a situation does occur please observe the following instructions.

CAUTION:

If a malfunction occurs, the possibility of an accidental discharge is substantially higher. For this reason, when clearing malfunctions, follow the above mentioned safety instructions. Keep the rifle pointed in a safe direction, do not turn the rifle towards your body or anyone else's. Do not place your hands in front of the barrel!

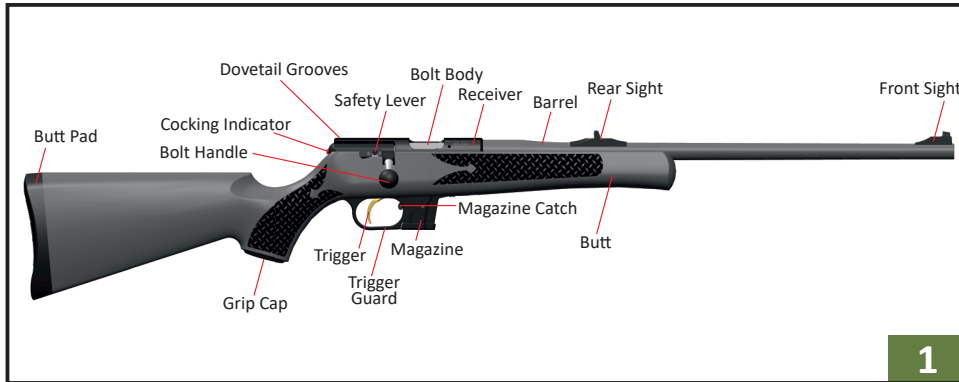
Malfunction	Possible Cause	Remedy
A cartridge has not been fed into the chamber	Magazine is not fully inserted or is damaged. The rifle or cartridge are fouled (dirty).	Insert magazine properly or change magazine. Clean the rifle and cartridge and wipe them dry or as the situation dictates, slightly lubricate.
Misfire	Defective cartridge. Firing pin hole is fouled (dirty).	Follow the Safety Instructions Disassemble and clean the firing pin.
A shot sounds "Weak"	The cartridge has been activated but no powder load was inside the cartridge case	Unload the rifle and check that the bullet has not obstructed the barrel. Any subsequent shot could cause damage to the barrel!
The spent case has not been ejected	Chamber, extractor or ammunition are dirty.	Clean and wipe the rifle dry or eventually lubricate lightly with a suitable agent. Use clean and new ammunition.

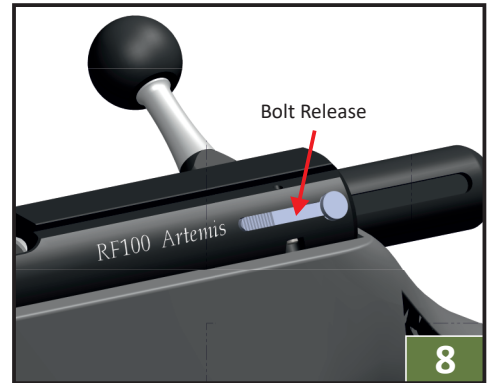
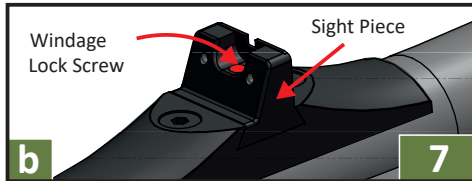
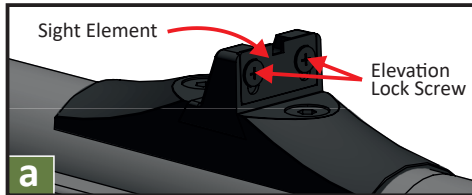
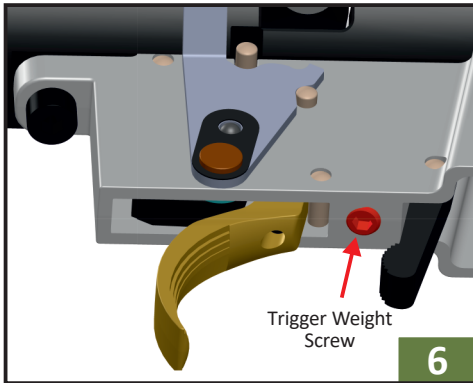
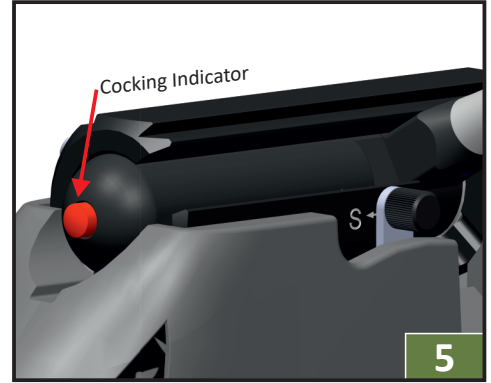
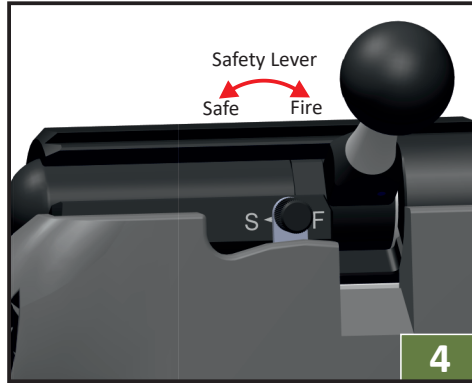
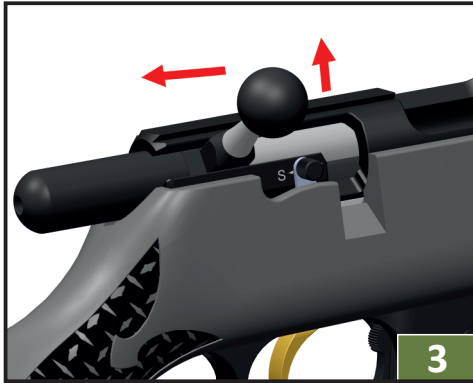
If you are not able to clear the malfunction in a manner described above, entrust the firearm to a competent gunsmith for inspection and repair.

LIST OF ILLUSTRATIONS

1. The name of basic parts
2. Magazine removal
3. Bolt operation
4. Safety lever
5. Cocking indicator
6. Adjustment of the trigger weight
7. Sight Adjustment
8. Bolt release

RF100 *Artemis*





WARRANTY

- **RF100 ARTEMIS 0.22 LR** comes with **1 year** carry in warranty from the date of retail purchase against faulty parts and labour and is non transferable.
- Proof of purchase is required (**Original sales receipt**)
- Some items are **not covered** under the warranty :
 - Normal wear and tear
 - Failure due to misuse or abuse / accidental discharge
 - Fitting of non-standard parts
 - Unauthorized repairs/ parts/ modifications
 - Barrel obstruction
 - Loss or theft
 - Dry Fire without empty case
 - Carry case, External coating
- Repair Service - If your rifle needs repair, we recommend you take or send it to your nearest Precihole Arms authorized dealer. Any disassembly or modification not performed by an authorized service station will void the warranty. All warranty work must be done by Precihole Arms or an authorized dealer of the company, and should the rifle be collected or returned for repair purpose, the transportation charges are to be borne by the customer.

